ing or not? I have seen so many marvelous things that I am ready to believe saything, but I pessed the incident on to the baye: How Ruchel. the cow, stood unsping for her child, while the great, hig. Texas leave

ran down the sulthen in her cheeks.

The hove were divided into indian tribes. The Sensons, Bear Cota. Cherokees, Delawares, Mohawks and Shawness. Away back in the woods. in a dense growth of trees, these tribes have a common council fire. A high etockeds is arranged in a circle of perhaps a hundred fost in diameter with a big wood fire blazing up in the center, and seate around the edge. There is one thronocest for the principal or chief. On Monday night we had a council fire and discussed Indians and Indian thinks That day we had gone to Clarksburg and been on the ground where Jesse Hughes in the fort at the mouth of Hik Creek, had seen a hoy about to so up the bill to get a turkey cobbling in the woods. He induced the boy to stay in and going up around, Jose Hughes come to about where the Waldo Hotel now stands and there in a cover made by enroute growing un around a chestnut stump, he saw an Indian peer out and gobble like a turkey. So Hughes laid him out and took the sculp back to the how

The next morning was Tuesday. We woke early and the day was just dawning. We had arranged to stop over for another assembly but I had talked three times and that was enough. Elmer Sharp and I thought of our cornfields in the grass and we got up and dressed and silently gtole away. The cars were not running so we cut out a couple of satchel sticks and walked the five miles to where "Henry" was ready to hear us on the wines of the wind home

We got breakfast at Weston. We stocked up for lunch at Buckhannon Ate lunch at the battle ground of Rich Mountain, of which more anonand up through the broad Tygarts Valley where corn-working was going on at a great rate, and where the women were working in the fields. It showed that woman as of old in the pioneer days can rise to the occasion And having been invited to the camp so many times before, may I not invite myself back again?

CHAPTER V

Indian Relice. How to make your own Arrow Heads, Dynamic Parce in use of Bow and Arrow. The Concholdal Practure

The editor of the "Payette Tribune" refers to me an article in the "Atlantic" by Mr. Charles D. Stewart, on the subject, "The Arrow Maker." and a review of the same in the "Hoston Transcript." I was giad to get this commission because I have definite, fixed ideas on the subject. The articles are interesting, Mr. Stewart reveals the method by which the ancient Indians made the stone arrow head. It seems that he called on an antiquarian who made an arrow head for him in eleven minutes and left him gasping with wonder. The arrow maker took a bit of stone and a bone stylue and feshioned the arrow head. I am inclined to think that the autiquarian was not altogether open and fair with the scribe for I consider it no great matter to chaps an arrow bend rad I phase it for second oil logswill's and skill along with the sharpening of a tooth pick or the cutting out of a paper dull.

The writer in the "heeton Transcript" catches up the held of centery and thrown it on "It is an article of discovery, of revelation," he caverit unfeels in a most surprising seamor the way in which the pre-Columhas indicate more arrow heads, spear herds, and other cutting missiles

and imprements of fint, considen, quartelle, larger and other hard substances. Their method of work was long a mystery. Nobedy mems to have found out in the early explorations."
If he had keen informed this statement would have read that mobody

If he had been informed this statement would have read that mobody found out prior to Capiain John Smith, who is the earliest observer to see down in writing in our language the marked described by these aprec writers.

The only process discussed by them is that of pressure by which the rudest weapons were fashioned, and they probably do not know that a saresmuch discussion can be waxed on the subject of pressure various pertussion.

When the small breacht me this much model topographs for a visual field, I would be something the product of th

Laws come to the contenion that the finding of arrow beads on the arrive of the entite is about such as this as the ability to distinguish as one issued cover. There is no should this a trained syst in addition to the stift is both cosm. Those who said this a trained syst in addition for the flaste degree that indicate man's handlework in his factor to know by that whatter it has due hattery or not. For with a there is always in he found any number of pieces of flast about the same their back here is the horse and then the flast here is the content of the same than the same their back here is the content of the same than the same their back here is the same than the

I can average about fifty arraw heads a year in my garden that are good enough to keep, and I always pick them up, and count that day just in the garden whose lowly acting sun finds me without a new nae. The homesteeper does not value them. They are culted to her.

I remainer on time I showed off. It was early in the spring of the parts dominated was at the house and we were discussing Indian veltor, and I was the part of th

I feel thris that where I live was the house of an errow meets; on account of the surveyfor framement that are lying around. A large number of these are too small and this to make an arrow head and they probably represent the chips incident to the work, but there are any number of users in the contract of the contrac

First will livest of in minute south next in little inlines and the works may sing response to the first problem of the proble

It is the concholds fracture that does it. That is the tendency of breaking off in shell like perticles, present in glass and hard glone.

The situation of Mr. Stewart is called to the account of Captain John Smith in rearra to the Virginia Indians. "His sterve hand he quickly makets with a little bone which he waterth at his however, the strong or glass, in the form of a heart and these they give to the read of their arrows. With the sinews of deer and the tops of a deer's home boulded to joilt by make a glaw which will not dislove its noilt water."

The giase referred to was volcanic giam no doubt as there was no such thing as the glass that we know prior to the time of Captain John Smith in America.

At this point I want to take up the local restricts that serves bands were made by heat and water. This presides in these nonestities small war raised in the belief that it was the free method and many years as a least of the part of the same and then part often and the many the same and then part often before the same and then part often of water on it from a straw and this latest of my own stayments. It have come to the conclusion that it had that of my own stayments once manner of munitarities whould be employed, even if it were possible to work first that ways.

I think that it may be stated that the crude way to shape an arrowhead is by pressure by something convincant to a busing pes. That for common garden variety of points this is the method for variety of the decided a homemode arrow. None other was needed. But when the to those works of art that whise like jewels such as ure to be found in every collection. Hen the antiquation is forced to the conclusion that ther were not formed in this way, and that is what belows up the third branch of this matter, and that is the percussion question

Probably the must valuable item of property known to the race prior to its degeneration by the negociation with the conquerier race of white mes, was some examples of the work of the artists in stone. There were knives that compared in value with the finest diamonds of the white race. There sions artists were recognized as a privileged and superior class of

citizens. They could pass through the enemy without being hafted or questioned, and without any danger for they were Arrow Makers. I like to think that the place I five is the site of the home of an Arrow Maker. These adepts were chosen and elected by the tribe for their skill, and it was a sort of scademy that they formed,

The workman sought the material far and wide. There is a great film. quarry in Crabbottom, Highland County, Virginia, where the flint was quarried and carried all over the country. The workman first reduced the large blocks of flint to fragments by a stone hammer, and the parts assorted for the implements suggested by their shape. The master-workman seated himself upon the ground and laid a flake on the paim of his left hand holding it firmly with one or more fingers. In his right hand was the chine or punch. This was often the enamel of the teeth of animals; sometimes of a very hard stone; and there is evidence that the American Indian knew how to temper conner to a hardness not known today. In front of the errow-maker wee scated his helper or striker. The point of the stylus was placed on some slight projection of the flint and the striker gave it a slight blow with a mallet of very hard wood, and the fint was fisked off under the chisel. The secret was in piscing the point of the punch and striking with a rebounding blow and the yielding of the paim that held the piece of stone.

It is only by allowing for the two methods that the difference in the marks of the specimens can be accounted for

If necessary I could so into these technical questions at great length, but I want to take up some more phrace of the use of arrows by the Indians.

There is one phase of the use of arrows that has never been accounted for and that is the force by which the missile could be propelled. If a high powered gun is placed in a vise and fired, the bullet will travel with the same force exactly so if the rifle were pointed and fired by hand, far if a bow and arrow were used in the vice, the arrow would be pro-

neifed with a feeble and insufficient force and the weapon would be useless. In the hands of an Indian bowman however, this arrow attains the speed of a bullet and is effective to a distance of two hundred yards and could be used with precision at that distance, and that is farther than a rifle can be made effective in the hands of a common marksman, It is a jong drive with a golf hall. There is some sort of dynamic force that the Indians of ancient times were able to impart to their arrows as if they threw their very souls into the flight of the arrow, and this could be taught and acquired. The secret is wholly lost and gone now. There is no doubt that there have been many exaggerations in regard to the force that an arrow could be propolied, but it is certainly true that an arrow could be shot entirely through the kedy of a halfate.

Out, James Buille, who must a number of years in regalities among the follows of the Outward for the Verlay, species of any institute one wither was the food in the virginance run very one. After transition of the following the virginance of the virginal of the virginance run very one of the virginal of virgi

the armor of the sodilers. Explorers agree that these arrows were asfactive for the signed game known to the American contingent. And it is no death true that while the Indiane could shoot at considerable distance, they were very expert in crawling close to game and took no chances on a song shot if they could get close in. One explorer says that he has even arrows midedded in oak trace to

the depth of eight inches.

Beverly, one of the oldest writers on the Virginia Indiana, says that

they made their how of scenar wood and that sounds reasonable to those who know what this region affords in the way of how dishest. The how was about forty-eight inches in length rad the etring was bucketin, deer alrews, or twisted gut. The howe were kept unbent except when in actual use
Every collector of arrow heads has specimens so small and well made

that he wonders how they could have been used to be proven, and as matter of fact, it is privity certain matter of fact, it is privity certain to matter of fact, it is privity certain the bow and arrow. They were for his wan, and used sever used with the how and arrow. They were for his wan, and used sever the fact of country of the form the thinking small game. The arrow point has no it is all to destroy or from the thinking, when used, and is known through a hellow reed or bit of cases skirlly or his feet loung, and is good for hird or a zery squirred up to about skirly feet, which just about represents the renge of the medium cheaps also them to the hands of the modern hoy.

But the Indiana were quick to abandou the use of the how and arrow and they took to the Infie and expert howens all passed many sensations asso. But they say that on the Indian reservations, and about the towns in the west, you may happen on a stray Indian who will break up a here bottle and make an errow head for you out of glass while you wall.

When an Indian warrior was shot with an arrow and was brought in still living and required treatment for the wound it was the act of a numbskell to withdraw it. You can almost imagine the wise old indians discussing a case where a mamber of the tribe had died because some ill advised and well meaning friend had drawn the arrow out. The arrow must be pushed through to the other side of the body, otherwise the arrow point will pull off and be left in the wound and cause the death of the patient.

The Boston Transcript is in transports over the "rescue of one of the Indian arts." It is as though hope had ceased for a time to make popguns and thes some young visitor had restored that art to all its pristing gary and noise.

The history of the world is partly written in these since relice. They are the only indicarractules evidence or man's progress, does do when he had progressed far enough he ceased to make an evid over. The cione inverse hards are privaty much the same the world over. The cione in-presents have been found as much as thirty fort below the excise of presents have been found as much as thirty fort below the excise of the contract of the contract

In Germany they are called thunder stones from the fact their thay eve so mech more readily found after a soumer theater storm on freshly cultivated land, the rain having washed away the mould from around ham.

In Scotlerd and Ireland, they are called all arrows, and the belief are

valie that they are still faced on the still private and that they are of appraishing order in a few sides of the still be given and that they are of that they have been show with a better that they have been shot with an old serve the distinct of its bettered dector ensemtless well comes and run his band over the bids and find the arrow which he then both to water with other ingredients and drambes the site aimside of come in.

There the belief in to the effect that though it is not nausual to find these alf arrows that it adwars by chaines, and that if a search is made for them, that they are never issued. This I have disported to a certain extent, though I have friends and acqualatances who are more than ready to believe this part of the lengueds.

And there is the belief in the old country that an arrow head set in precious metal and worn about the person is a talleman against misfortune.

tions years use failed out there speciesses and had the inviter make breakfort each form and give them to the insulty, of the returne of four observation, or to having done very much for them prior to flact time. Array were thankfully had not insulty when them, and do not ware them the contract of the

patent, but we may be drawing a mean over the page of history, and some day experts may be required to read the arrow-heads arish: